

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WH2XXJ

(Call Sign)

0657-EX-CR-2019

(File Number)

NAME Raytheon Company

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53
- (2) Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48
- (3) Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26
- (4) MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11
- (5) MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency Information

Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	

This authorization effective February 01, 2020 and
will expire 3:00 A.M. EST August 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	
437.5 MHz	FX	25K0G1D	933 W (ERP)	

Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	
437.5 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.5 MHz	FX	25K0G1D	933 W (ERP)	

MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	MO	25K0G1D	933 W (ERP)	
437.275 MHz	MO	25K0G1D	933 W (ERP)	
437.3 MHz	MO	25K0G1D	933 W (ERP)	
437.325 MHz	MO	25K0G1D	933 W (ERP)	
437.35 MHz	MO	25K0G1D	933 W (ERP)	
437.375 MHz	MO	25K0G1D	933 W (ERP)	
437.4 MHz	MO	25K0G1D	933 W (ERP)	
437.425 MHz	MO	25K0G1D	933 W (ERP)	

Frequency Information

MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.45 MHz	MO	25K0G1D	933 W (ERP)	
437.475 MHz	MO	25K0G1D	933 W (ERP)	
437.5 MHz	MO	25K0G1D	933 W (ERP)	

MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	MO	25K0G1D	933 W (ERP)	
437.275 MHz	MO	25K0G1D	933 W (ERP)	
437.3 MHz	MO	25K0G1D	933 W (ERP)	
437.325 MHz	MO	25K0G1D	933 W (ERP)	
437.35 MHz	MO	25K0G1D	933 W (ERP)	
437.375 MHz	MO	25K0G1D	933 W (ERP)	

Frequency Information

MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.4 MHz	MO	25K0G1D	933 W (ERP)	
437.425 MHz	MO	25K0G1D	933 W (ERP)	
437.45 MHz	MO	25K0G1D	933 W (ERP)	
437.475 MHz	MO	25K0G1D	933 W (ERP)	
437.5 MHz	MO	25K0G1D	933 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Stop buzzer is Jared Dorny at (303) 344-6171 (office) and (720) 749-0349 (cell).